

Title (en)
SYSTEMS AND METHODS FOR INTERPOLATION IN SYSTEMS WITH NON-LINEAR QUANTIZATION

Title (de)
SYSTEME UND VERFAHREN ZUR INTERPOLATION IN SYSTEMEN MIT NICHTLINEARER QUANTISIERUNG

Title (fr)
SYSTÈMES ET PROCÉDÉS D'INTERPOLATION DANS DES SYSTÈMES À QUANTIFICATION NON LINÉAIRE

Publication
EP 3475725 A2 20190501 (EN)

Application
EP 17739788 A 20170627

Priority
• US 201662355686 P 20160628
• US 2017039510 W 20170627

Abstract (en)
[origin: WO2018005498A2] Various aspects and examples are directed to methods and systems for interpolation in systems that execute non-linear quantization routines. Particular aspects of the methods described herein include a method of detecting a Radar Cross Section (RCS) and a method of detecting patient injuries. In one example, a method of detecting RCS includes receiving a sequence of samples at a re-visit rate of a radar antenna, the sequence of samples being based on electromagnetic energy reflected from a target, interpolating a model curve to the sequence of samples, where each sample of the sequence of samples geometrically increases in value relative to a previous sample of the sequence of samples, comparing the model curve to a calibrated curve and determining a shift between the model curve and the calibrated curve based on the comparison, and detecting a RCS based on the shift between the model curve and the calibrated curve.

IPC 8 full level
G01S 7/41 (2006.01)

CPC (source: EP US)
C12Q 1/6851 (2013.01 - US); **G01S 7/41** (2013.01 - EP US); **G16B 20/00** (2019.01 - EP); **G16H 50/20** (2017.12 - EP); **G16H 50/30** (2017.12 - US); **G16H 50/50** (2017.12 - EP); **G06F 17/11** (2013.01 - US)

Citation (search report)
See references of WO 2018005498A2

Cited by
CN110954877A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018005498 A2 20180104; **WO 2018005498 A3 20180322**; EP 3475725 A2 20190501; EP 3475725 B1 20200610;
US 2019385746 A1 20191219

DOCDB simple family (application)
US 2017039510 W 20170627; EP 17739788 A 20170627; US 201716307817 A 20170627